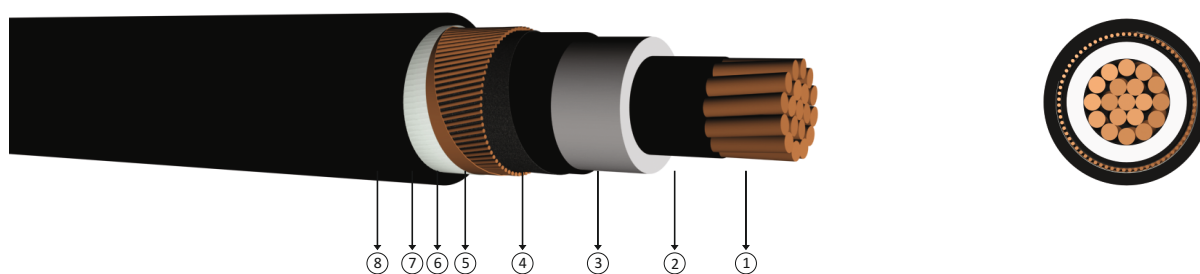


20.3/35 kV or 20.8/36 kV XLPE insulated, single core cables with copper conductor



Code: N2XS2Y, CU/XLPE/CWS/PE

Standards: HD 620 S2, TSEK

Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 20.3/35 kV
 : 20.8/36 kV
 Min. bending radius : 15 x D
 D : Cable outer diameter

Application

These are cables with low dielectric losses used in energy networks with sudden load changes. Laid in residential or industrial areas, underground or in ducts.

Construction

- ① Stranded copper conductors ③ XLPE insulation ⑤ Semi conductive tape ⑦ Polyester tape
 ② Inner semi conductive layer ④ Outer semi conductive layer ⑥ Copper screen ⑧ PE outer jacket.

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES									
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance at 20 °C Max	DC Conductor Resistance at 90 °C Max	Operation Inductance		Operation Capacitance	Current Carrying Capacity (A)			
mm ²	mm	kg/km	m	ohm/km	ohm/km	*** mH/km	** mH/km	μF/km	In ground at 20 °C		In air at 30 °C	
									***	**	***	**
1x35/16	38,5	1350	1000	0,524	0,6707	0,692	0,485	0,115	214	192	233	202
1x50/16	39,5	1550	1000	0,387	0,4954	0,666	0,464	0,125	251	226	279	241
1x70/16	41,5	1800	1000	0,268	0,3430	0,635	0,439	0,140	306	276	348	299
1x95/16	43,0	2100	1000	0,193	0,2470	0,610	0,419	0,153	363	329	421	362
1x120/16	45,0	2400	1000	0,153	0,1958	0,591	0,405	0,165	410	373	483	416
1x150/25	46,5	2800	1000	0,124	0,1587	0,574	0,342	0,178	449	415	540	469
1x185/25	48,5	3200	1000	0,0991	0,1268	0,557	0,381	0,191	503	468	615	536
1x240/25	51,0	3800	1000	0,0754	0,0965	0,537	0,366	0,209	576	541	718	630
1x300/25	53,0	4450	1000	0,0601	0,0769	0,520	0,354	0,248	641	608	812	717
1x400/35	56,5	5550	500	0,0470	0,0602	0,499	0,341	0,226	697	684	904	823
1x500/35	60,0	6600	500	0,0366	0,0468	0,482	0,330	0,274	768	762	1011	929
1x630/35	63,5	7950	500	0,0283	0,0362	0,466	0,320	0,300	858	847	1128	1043

Note
 In ground
 In air

 **
 Number of system

: Current carrying capacities are valid under the following conditions;
 : 20 °C, 70 cm depth of lay, soil-thermal resistivity 1 K.m/W, load factor 0.7
 : 30 °C, load factor 1.0
 : Flat formation, clearance between cables; in air = 1 x Cable outer diameter, in ground = 7 cm
 : Trefoil formation
 : 1